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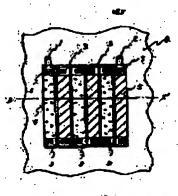
(72)Inventor: OGASAWARA KAZUO

## (54) SEMICONDUCTOR DEVICE

## (57)Abstract:

PURPOSE: To reduce the area of a semiconductor device largely by combining a diffusion layer as a first resistor layer and a polycrystalline silicon layer as a second resistor layer.

CONSTITUTION: Polycrystalline silicon single body resistors 4 formed on a thick oxide film 8 shaped on a silicon substrate 11 through thermal oxidation, etc. are patterned by using photoetching technique, etc., and oxide films 9 are formed through thermal oxidation, etc. Diffusion unit resistors 5 are shaped through the diffusion of an impurity or ion implantation through thin oxide films 10. Openings for polycrystalline silicon contacts 6 and diffusion—layer contacts 7 are bored, and the polycrystalline silicon resistors 4 and the diffusion unit resistors 5 are connected mutually by lead—out conductors 1 and 2 and mutual connecting conductors 3, thus constituting the titled semiconductor device.





## **LEGAL STATUS**

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